

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicants:	William W. Shumway et al.	)	
		)	
		)	Art Unit: Unknown
		)	
Serial No.:	unknown	)	
		)	
Filed:	concurrently herewith	)	Examiner: Unknown
		)	
For:	SURFACTANT-FREE EMULSIONS	)	
	AND METHODS OF USE THEEOF	)	

**INFORMATION DISCLOSURE STATEMENT**

ASSISTANT COMMISSIONER FOR PATENTS  
Washington, D.C. 20231

SIR:

The following documents are known to Applicants or Applicants' attorneys and are submitted for the Examiner to consider in the above-captioned application.

**U. S. PATENTS**

U.S. Patent No. 3,125,517 issued March 17, 1964 to Ronald L. Voda et al.

U.S. Patent No. 3,826,771 issued July 30, 1974 to Donald R. Anderson et al.

U.S. Patent No. 4,033,784 issued July 5, 1977 to Michael B. Lawson et al.

U.S. Patent No. 4,068,676 issued January 17, 1978 to Donald J. Thorn et al.

U.S. Patent No. 4,107,057 issued August 15, 1978 to Walter R. Dill et al.

U.S. Patent No. 4,108,681 issued August 22, 1978 to Michael B. Lawson et al.

U.S. Patent No. 4,392,917 issued July 12, 1983 to Stanley A. Lipowski et al.

U.S. Patent No. 4,460,483 issued July 17, 1984 to Jimmie d. Weaver.

U.S. Patent No. 4,480,696 issued November 6, 1984 to Stephen W. Almond et al.

U.S. Patent No. 4,502,963 issued March 5, 1985 to Bobby R. Harmon et al.

U.S. Patent No. 4,519,455 issued May 28, 1985 to Marlin D. Holtmyer et al.

U.S. Patent No. 4,554,082 issued November 19, 1985 to Marlin D. Holtmyer et al.

U.S. Patent No. 4,627,495 issued December 9, 1986 to Phillip C. Harris et al.

U.S. Patent No. 4,659,486 issued April 21, 1987 to Bobby R. Harmon.

U.S. Patent No. 4,670,550 issued June 2, 1987 to Jan J. Bleeker et al.

U.S. Patent No. 4,772,646 issued September 20, 1988 to Weldon M. Harms et al.

U.S. Patent No. 5,021,170 issued June 4, 1991 to Thomas G. Shumate et al.

U.S. Patent No. 5,194,422 issued March 16, 1993 to Heinz Mueller et al.

U.S. Patent No. 5,232,910 issued August 3, 1993 to Heinz Mueller et al.

U.S. Patent No. 5,252,554 issued October 12, 1993 to Heinz Mueller et al.

U.S. Patent No. 5,254,531 issued October 19, 1993 to Heinz Mueller et al.

U.S. Patent No. 5,294,353 issued March 15, 1994 to Walter r. Dill.

U.S. Patent No. 5,318,956 issued June 7, 1994 to Heinz Mueller et al.

U.S. Patent No. 5,355,958 issued October 18, 1994 to Richard W. Pauls et al.

U.S. Patent No. 5,427,699 issued June 27, 1995 to Richard W. Pauls et al.

U.S. Patent No. 5,489,394 issued February 6, 1996 to William G.F. Ford et al.

U.S. Patent No. 5,830,483 B1 issued November 3, 1998 to Kurt Seidel et al.

U.S. Patent No. 5,869,434 issued February 9, 1999 to Heinz Mueller et al.

U.S. Patent No. 5,909,774 issued June 8, 1999 to James E. Griffith et al.

U.S. Patent No. 5,939,081 issued August 17, 1999 to Achim Ansmann et al.

U.S. Patent No. 6,218,342 B1 issued April 17, 2001 to Avind D. Patel.

U.S. Patent No. 6,268,406 B1 issued July 31, 2001 to Jiten Chatterji et al.

U.S. Patent No. 6,315,042 B1 issued November 13, 2001 to James E. Griffith et al.

U.S. Patent No. 6,422,325 B1 issued July 23, 2002 to Darrell L. Krieger.

U.S. Patent No. 6,435,276 B1 issued August 20, 2002 to James D. Kercheville et al.

U.S. Patent No. 6,524,384 B2 issued February 25, 2003 to James E. Griffith et al.

U.S. Patent No. 6,596,670 B1 issued July 22, 2003 to Heinz Mueller et al.

U.S. Patent No. 6,608,006 B2 issued August 19, 2003 to Robert S. Taylor et al.

U.S. Patent No. 6,620,770 B1 issued September 16, 2003 to Jeff Kirsner et al.

U.S. Patent No. 6,662,871 B2 issued December 16, 2003 to James D. Kercheville et al.

U.S. Patent No. 6,666,268 B2 issued December 23, 2003 to James E. Griffith et al.

U.S. Patent No. 6,668,929 B2 issued December 30, 2003 to James E. Griffith et al.

U.S. Patent No. 6,691,805 B2 issued February 17, 2004 to Carl J. Thaemlitz.

U.S. Patent No. Re. 32, 302 issued December 9, 1986 to Stephen W. Almond et al.

U.S. Patent No. Re. 36,066 issued January 26, 1999 to Heinz Mueller et al.

#### **U.S. PATENT APPLICATION PUBLICATION**

U.S. Patent Application Publication No. US 2001/0009890 A1 published July 26, 2001,  
to Arvind D. Patel et al.

U.S. Patent Application Publication No. US 2001/0051593 A1 published December 13,  
2001, to Arvind D. Patel.

U.S. Patent Application Publication No. US 2002/0033258 A1 published March 21, 2002  
to Arvind D. Patel

U.S. Patent Application Publication No. US 2002/0125013 A1 published September 12,  
2002 to James D. Kercheville et al.

U.S. Patent Application Publication No. US 2002/0148609 A1 published October 17,

2002 to James D. Kercheville et al.

U.S. Patent Application Publication No. US 2003/0075360 A1 published April 24, 2003  
to Arvind D. Patel et al.

U.S. Patent Application Publication No. US 2003/0114316 A1 published June 19, 2003  
to Arvind D. Patel et al.

U.S. Patent Application Publication No. US 2004/0043905 A1 published March 4, 2004  
to Jeff Miller et al.

### **FOREIGN PATENTS**

European Patent Specification Number 0 137 538 B1 published March 14, 1990.

### **OTHER PUBLICATIONS**

Paper entitled "Chalk Emulsion: A New Completion and Workover Fluid" By H.C.H.  
Darley, July 1972.

SPE 77497 entitled "Crude Oil Emulsions: A State-Of-The Art Review" By Sunil Kokal,  
dated October 2002.

Paper entitled "Factors Controlling the Stability of Colloid-Stabilized Emulsions" by David  
E. Tambe et al., Journal of Colloid and Interface Science, dated July 1993.

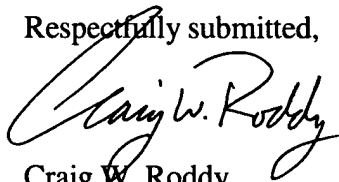
Paper entitled "Factors Controlling the Stability of Colloid-Stabilizing Emulsions" by  
David E. Tambe et al., Journal of Colloid and Interface Science, dated October 1994.

Paper entitled "A Study of the Formation of Water-In-Oil Emulsions" by Mark Bobra.

Paper entitled "Oil Well Drilling Fluids", pages 320-324.

Copies of the non-patented references and Form PTO-1449 are submitted herewith.

Respectfully submitted,

A handwritten signature in black ink, reading "Craig W. Roddy". The signature is fluid and cursive, with the first name "Craig" being the most prominent.

Craig W. Roddy  
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<b>FORM PTO-1449 (Modified)</b>  LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT  (Use several sheets if necessary)	ATTY. DOCKET NO. 2003-IP-012703U1	SERIAL NO. unknown
	APPLICANT William W. Shumway et al.	
	FILING DATE concurrently herewith	GROUP Unknown

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		Document No.	Date	Name	Class	Subclass	Filing Date if Appropriate
	AA	3,125,517	03/17/64	Voda et al.	252	8.5	
	AB	3,826,771	07/30/74	Anderson et al.	260	39.6 H	
	AC	4,033,784	07/05/77	Lawson et al.	134	20	
	AD	4,068,676	01/17/78	Thorn et al.	137	13	
	AE	4,107,057	08/15/78	Dill et al.	252	8.55 C	
	AF	4,108,681	08/22/78	Lawson et al.	134	20	
	AG	4,392,917	07/12/83	Lipowski et al.	162	168.1	
	AH	4,460,483	07/17/84	Weaver	252	8.55 R	
	AI	4,480,696	11/06/84	Almond et al.	166	308	
	AJ	4,502,963	03/05/85	Harmon	252	8.5 P	
	AK	4,519,455	05/28/85	Holtmyer et al.	166	305 R	

## FOREIGN PATENT DOCUMENTS

		Document No.	Date	Country	Class	Subclass	Translation	
							Yes	No
	AL	0 137 538 B1	03/14/90	Europe	C09K	7/06	X	
	AM							
	AN							
	AO							
	AP							

## OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

	AR	Paper entitled "Chalk Emulsion: A New Completion and Workover Fluid"
		By H.C.H. Darley, July 1972.
	AS	SPE 77497 entitled "Crude Oil Emulsions: A State-Of-The Art Review"
		By Sunil Kokal, dated October 2002.
	AT	Paper entitled "Factors Controlling the Stability of Colloid-
		Stabilized Emulsions" by David E. Tambe et al., Journal of Colloid and Interface Science, dated July 1993.

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	AA	4,554,082	11/19/85	Holymyer et al.	252	8.55 R	
	AB	4,627,495	12/09/86	Harris et al.	166	280	
	AC	4,659,486	04/21/87	Harmon	252	8.5	
	AD	4,670,550	06/02/87	Bleeker et al.	536	114	
	AE	4,772,646	09/20/88	Harms et al.	524	27	
	AF	5,021,170	06/04/91	Shumate et al.	252	8.515	
	AG	5,194,422	03/16/93	Mueller et al.	507	136	
	AH	5,232,910	08/03/93	Mueller et al.	507	139	
	AI	5,252,554	10/12/93	Mueller et al.	507	138	
	AJ	5,254,531	10/19/93	Mueller et al.	507	131	
	AK	5,294,353	03/15/94	Dill	252	8.553	

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	AT		Paper entitled "Oil Well Drilling Fluids", pages 320-324.

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EXAMINER INITIAL		Document No.	Date	Name	Class	Subclass	Filing Date if Appropriate
	AA	5,318,956	06/07/94	Mueller et al.	507	139	
	AB	5,355,958	10/18/94	Pauls et al.	166	307	
	AC	5,427,699	06/27/95	Pauls et al.	507	244	
	AD	5,489,394	02/06/96	Ford et al.	252	162	
	AE	5,830,483	11/03/98	Seidel et al.	424	401	
	AF	5,869,434	02/09/99	Mueller et al.	507	110	
	AG	5,909,774	06/08/99	Griffith et al.	166	312	
	AH	5,939,081	08/17/99	Ansmann et al.	424	401	
	AI	6,218,342 B1	04/17/01	Patel	507	129	
	AJ	6,268,406 B1	07/31/01	Chatterji et al.	523	130	
	AK	6,315,042 B1	11/13/01	Griffith et al.	166	291	

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EXAMINER INITIAL		Document No.	Date	Name	Class	Subclass	Filing Date if Appropriate
	AA	6,422,325 B1	07/23/02	Krieger	175	50	
	AB	6,435,276 B1	08/20/02	Kercheville et al.	166	255.1	
	AC	6,524,384 B2	02/25/03	Griffith et al.	106	705	
	AD	6,596,690 B1	07/22/03	Mueller et al.	507	136	
	AE	6,608,006 B2	08/19/03	Taylor et al.	507	131	
	AF	6,620,770 B1	09/16/03	Kirsner et al.	507	131	
	AG	6,662,871 B2	12/16/03	Kercheville et al.	166	255.1	
	AH	6,666,268 B2	12/23/03	Griffith et al.	166	292	
	AI	6,668,929 B2	12/30/03	Griffith et al.	166	292	
	AJ	6,691,805 B2	02/17/04	Thaemlitz	175	65	
	AK	Re 32,302	12/09/86	Almond et al.	166	308	

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	AA	Re. 36,066	01/26/99	Mueller et al.	507	138	
	AB	US 2001/0009890 A1	07/26/01	Patel et al.	507	138	
	AC	US 2001/0051593 A1	12/13/01	Patel	507	129	
	AD	US 2002/0033258 A1	03/21/02	Patel	166	278	
	AE	US 2002/0125013 A1	09/12/02	Kercheville et al.	166	301	
	AF	US 2002/0148609 A1	10/17/02	Kercheville et al.	166	255.1	
	AG	US 2003/0075360 A1	04/24/03	Patel et al.	175	50	
	AH	US 2003/0114316 A1	06/19/03	Patel et al.	507	138	
	AI	US 2004/0043905 A1	03/04/04	Miller et al.	507	100	
	AJ						
	AK						

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